

Figure 1A

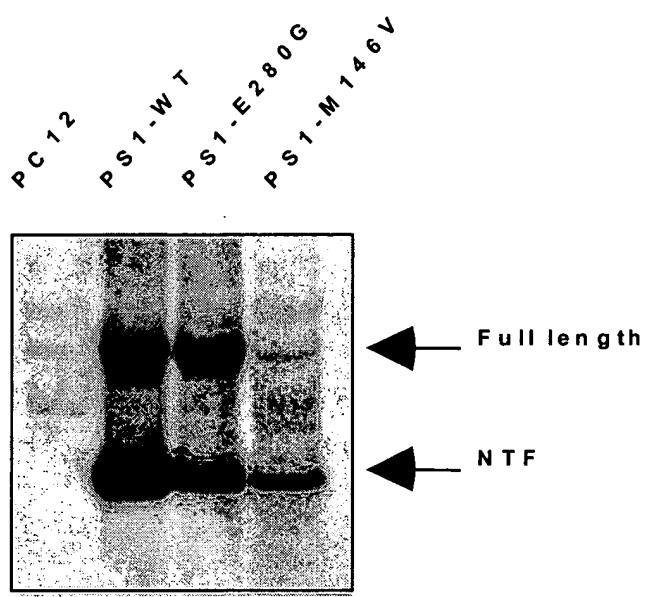


Figure 1B

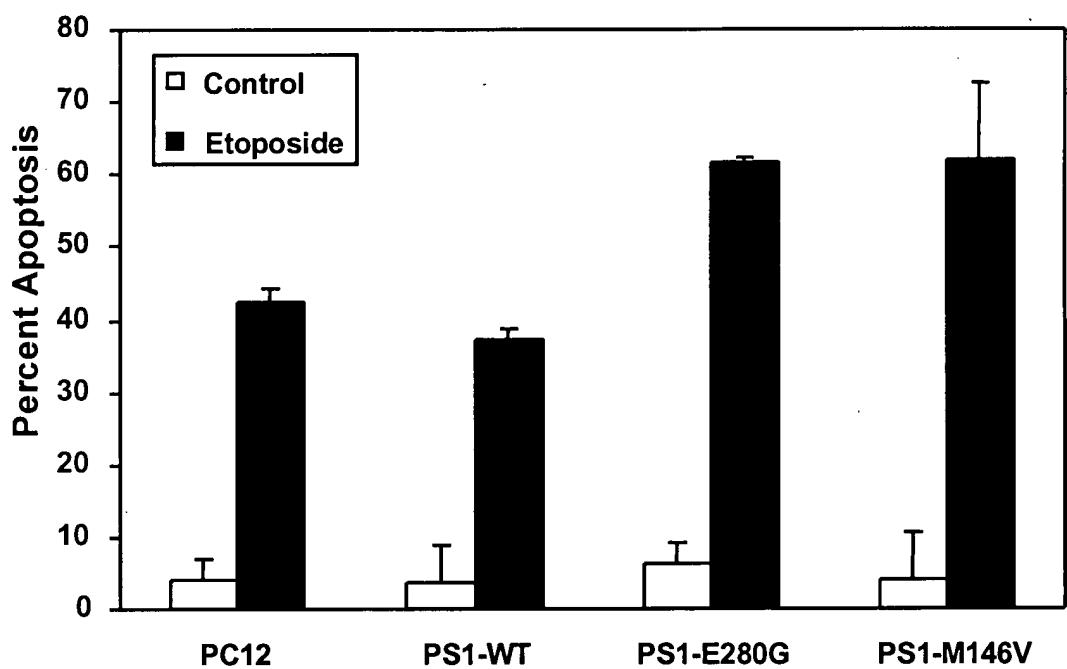


Figure 1C

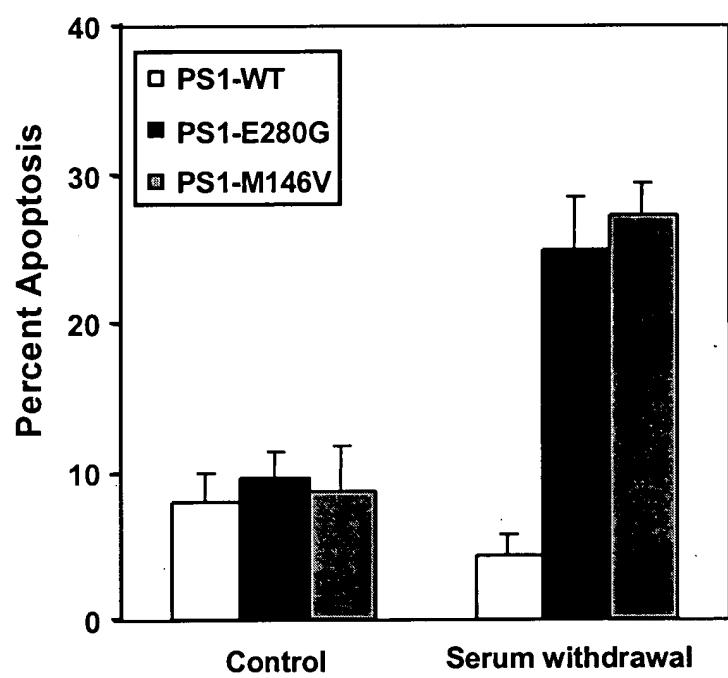


Figure 1D

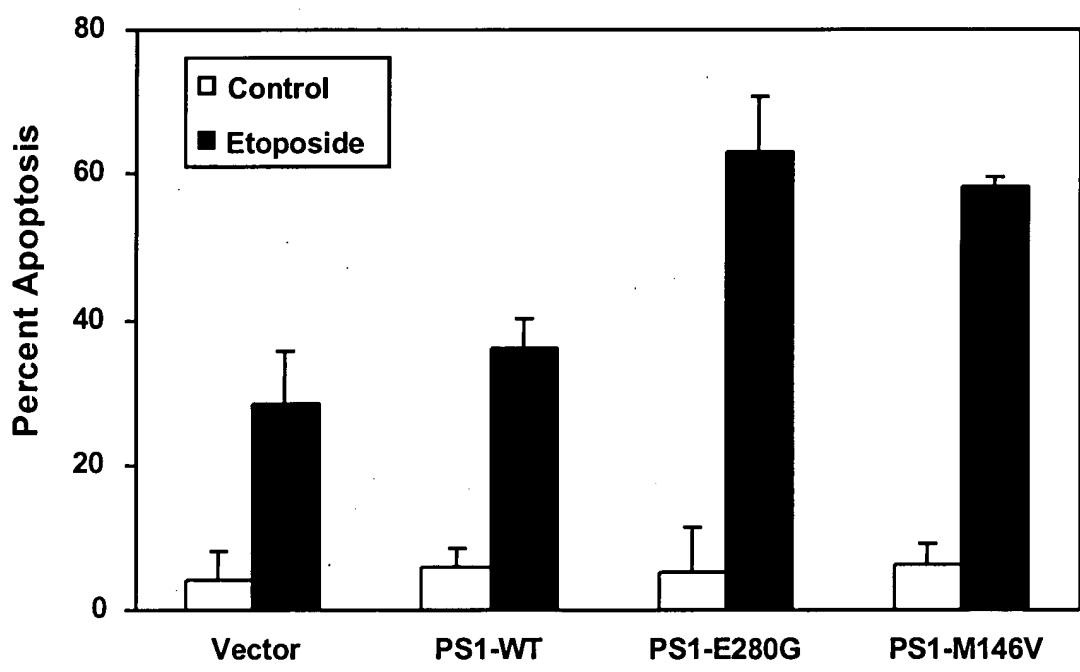


Figure 2A

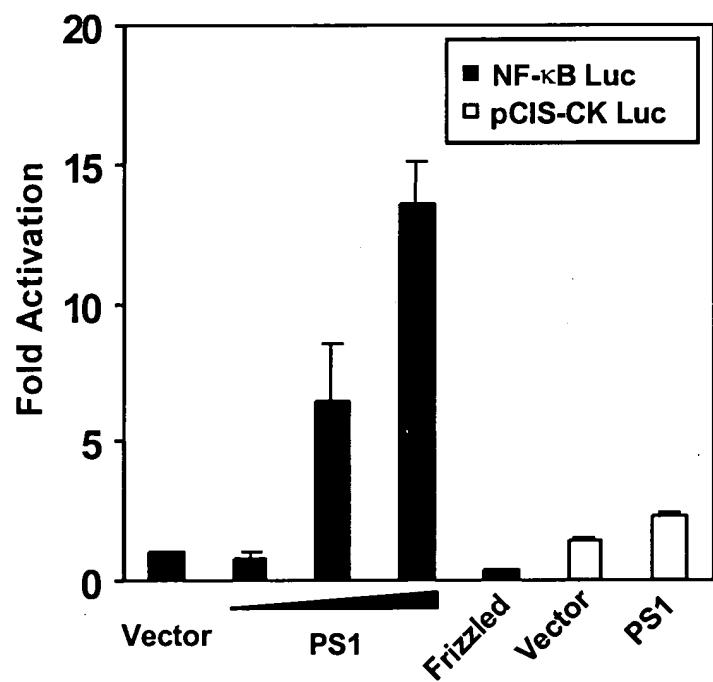


Figure 2B

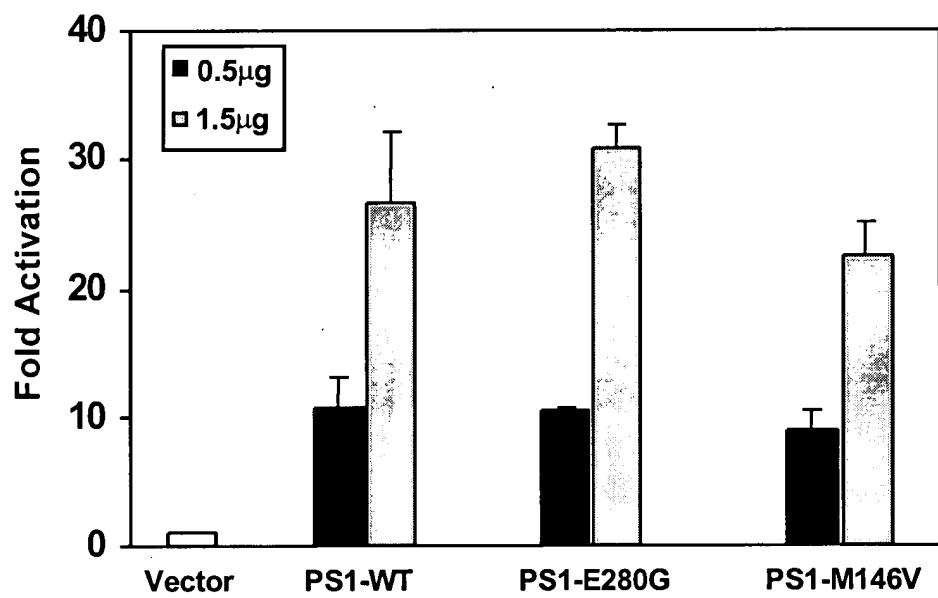


Figure 3A

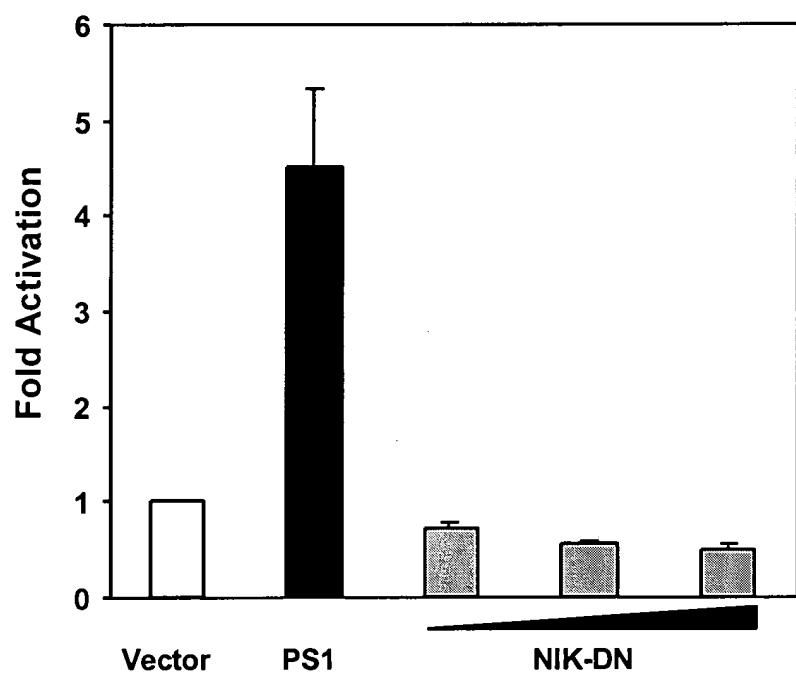


Figure 3B

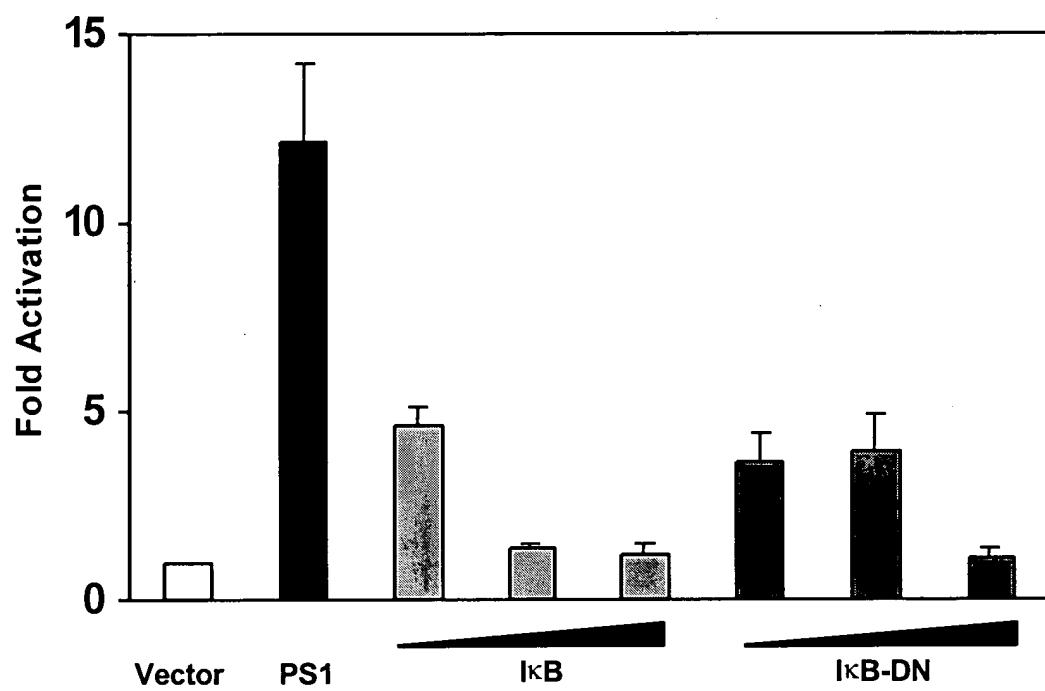


Figure 4A

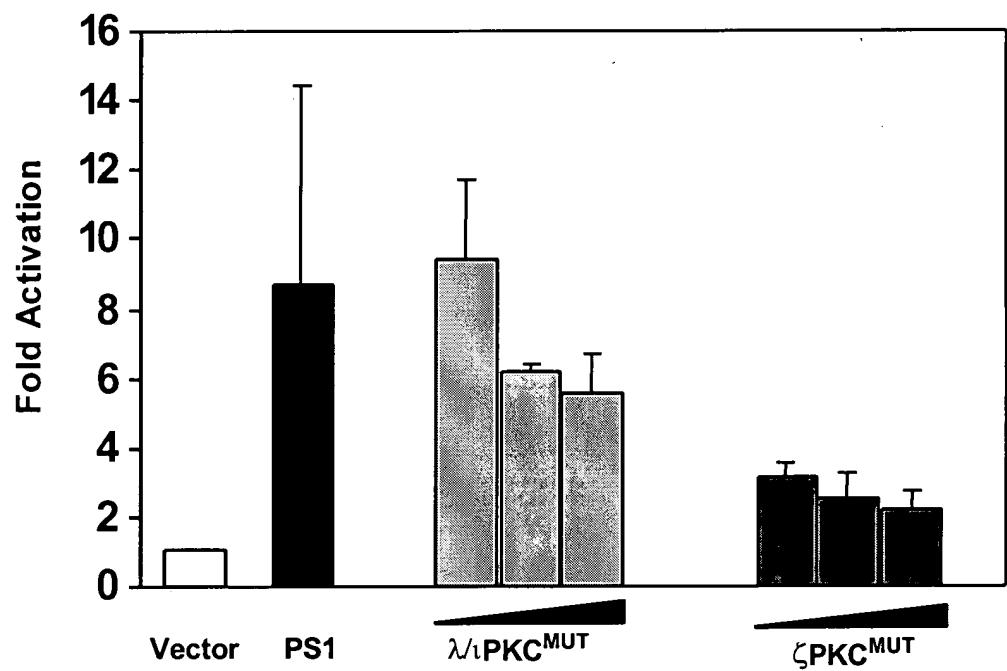


Figure 4B

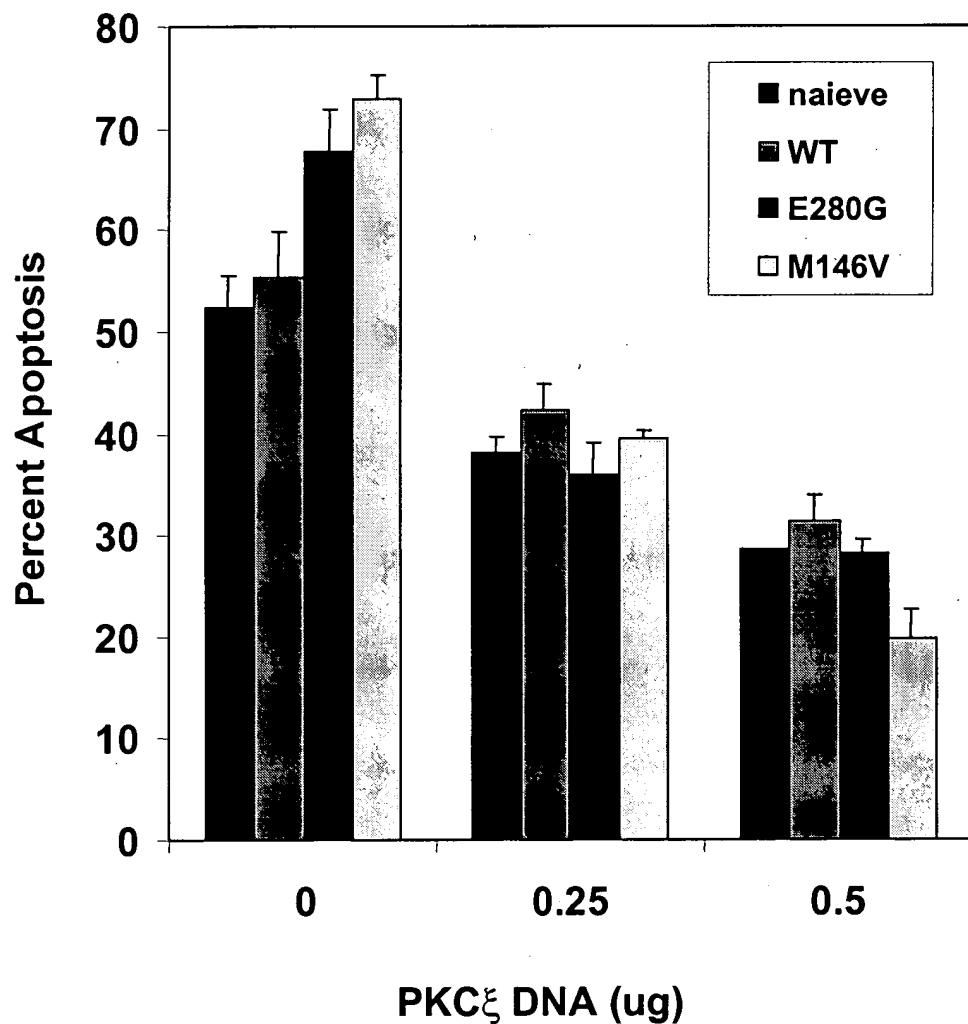


Figure 4C

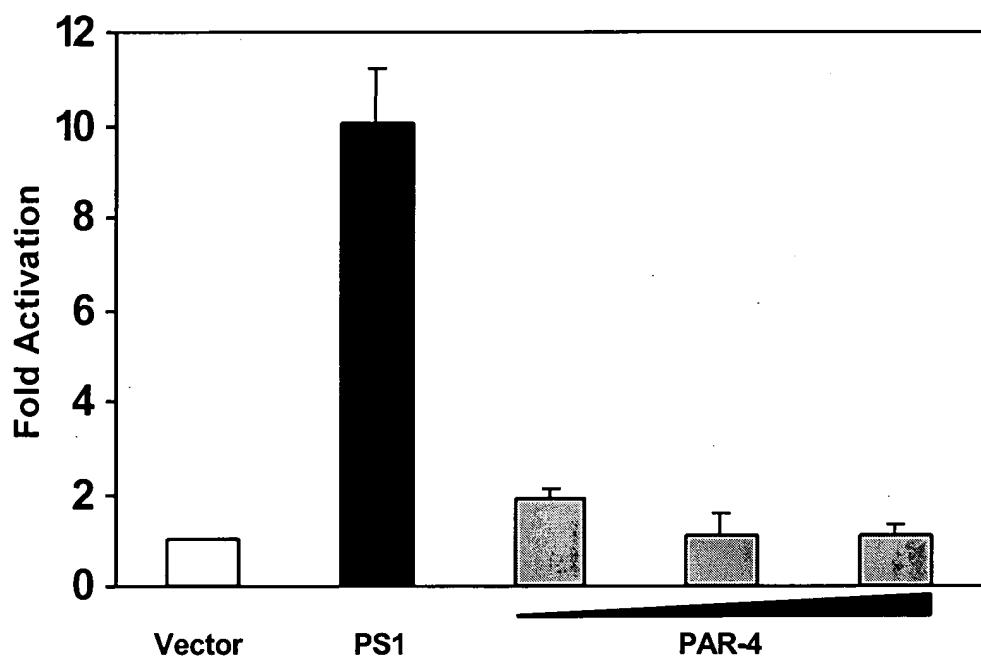


Figure 4D

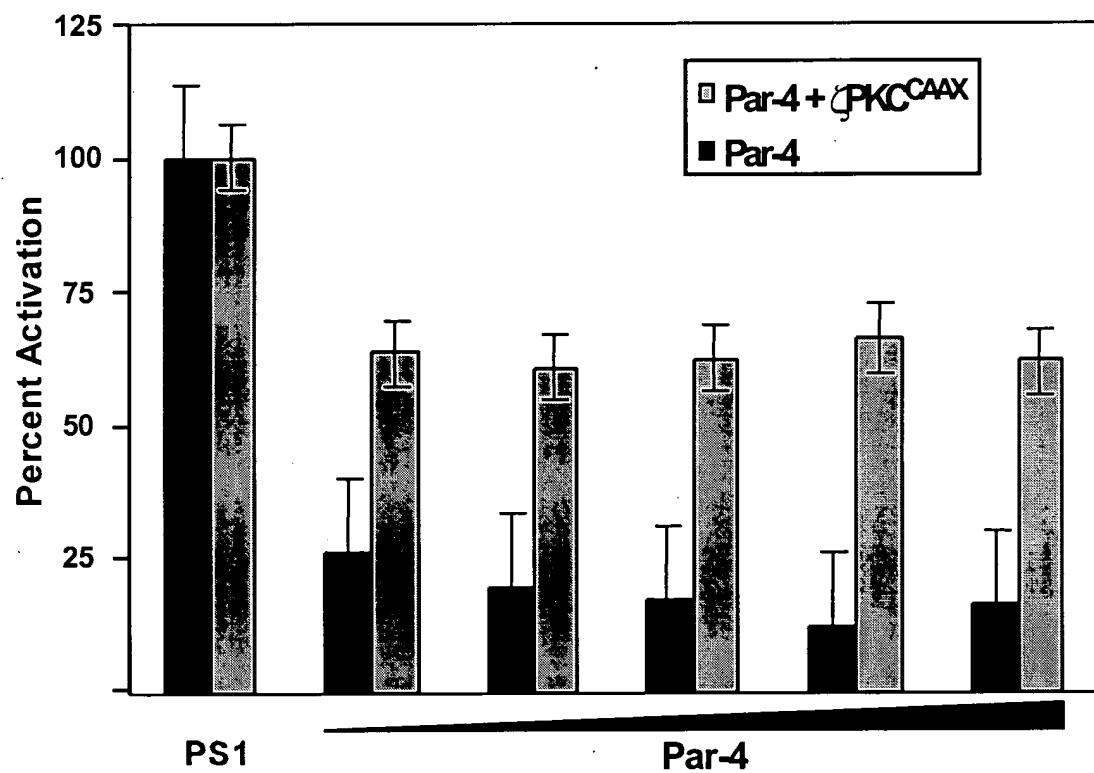


Figure 4E

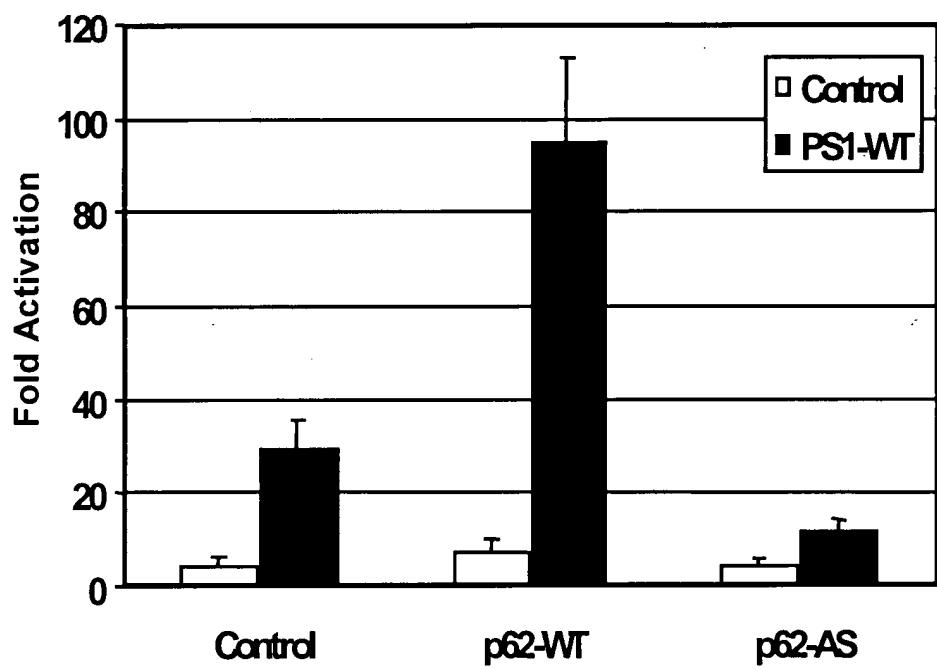


Figure 5A

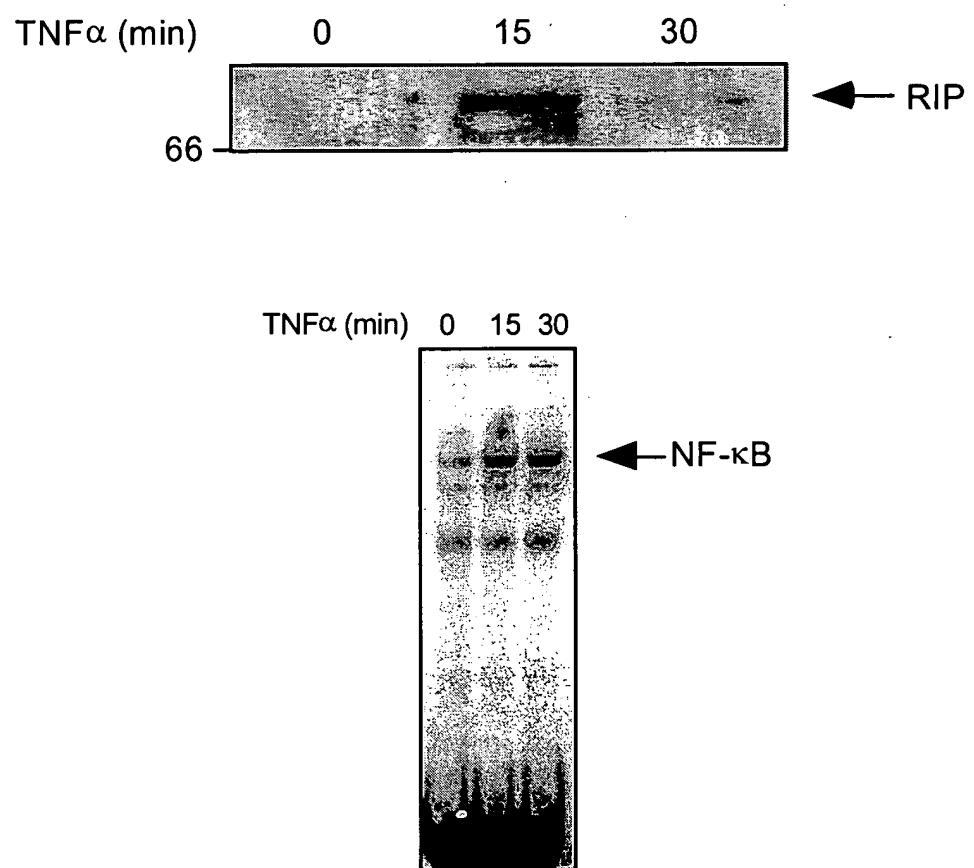


Figure 5B

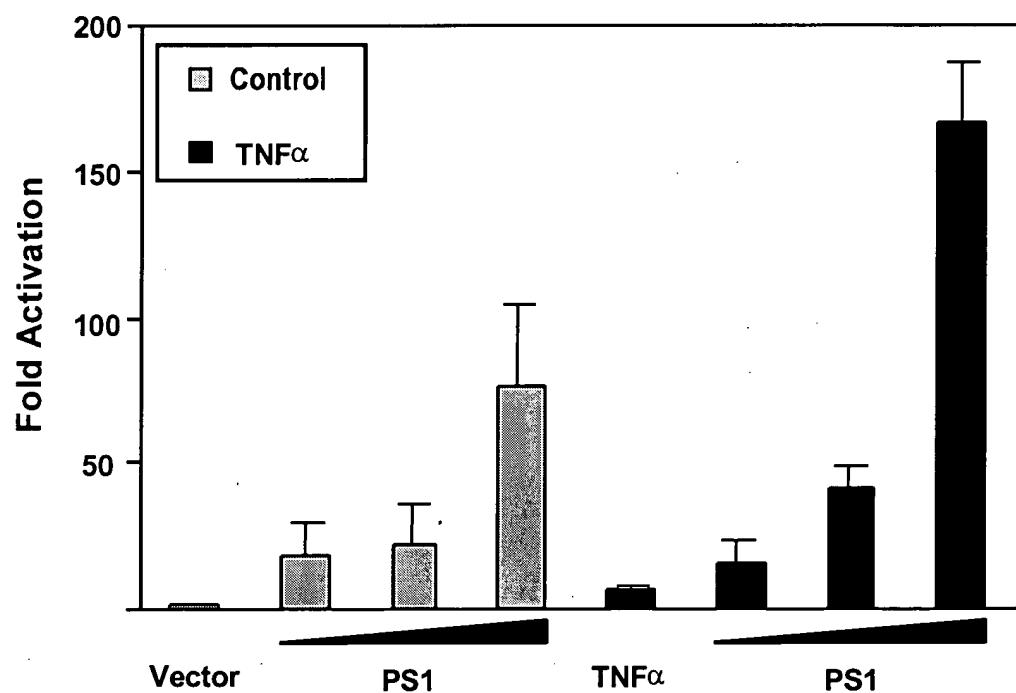


Figure 5C

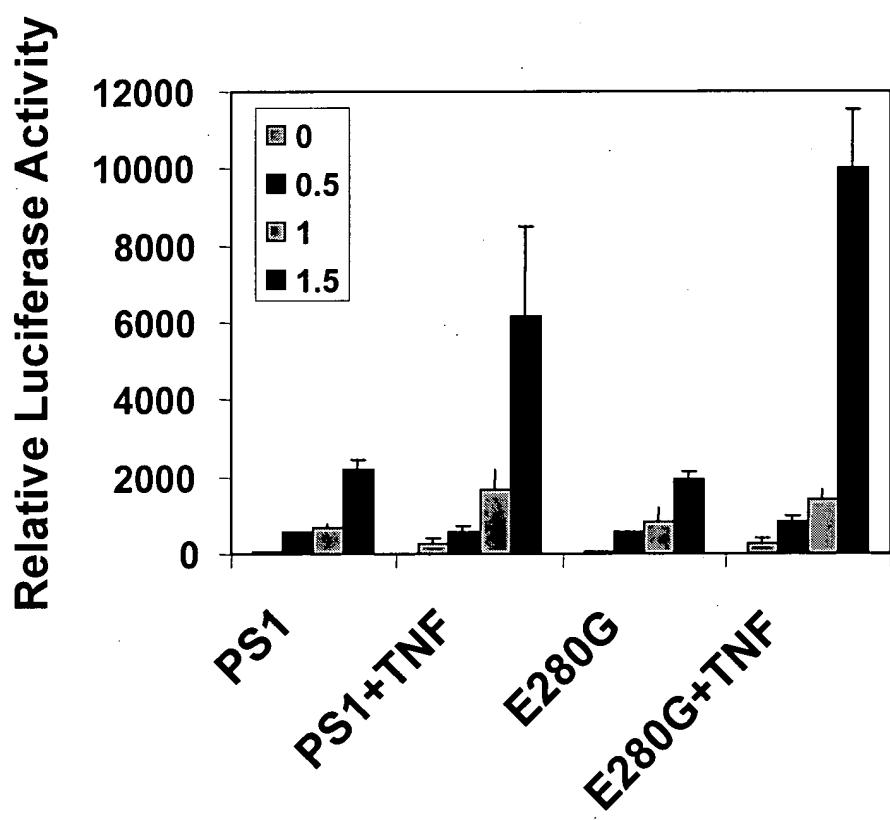


Figure 6A

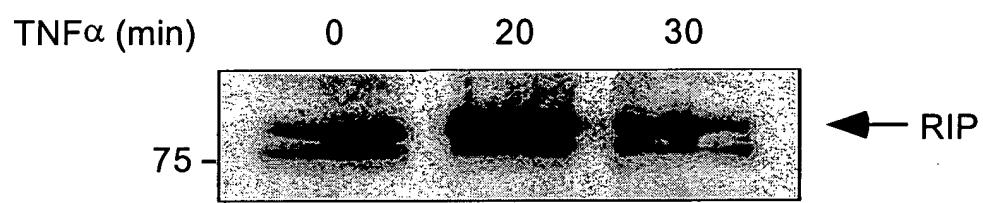


Figure 6B

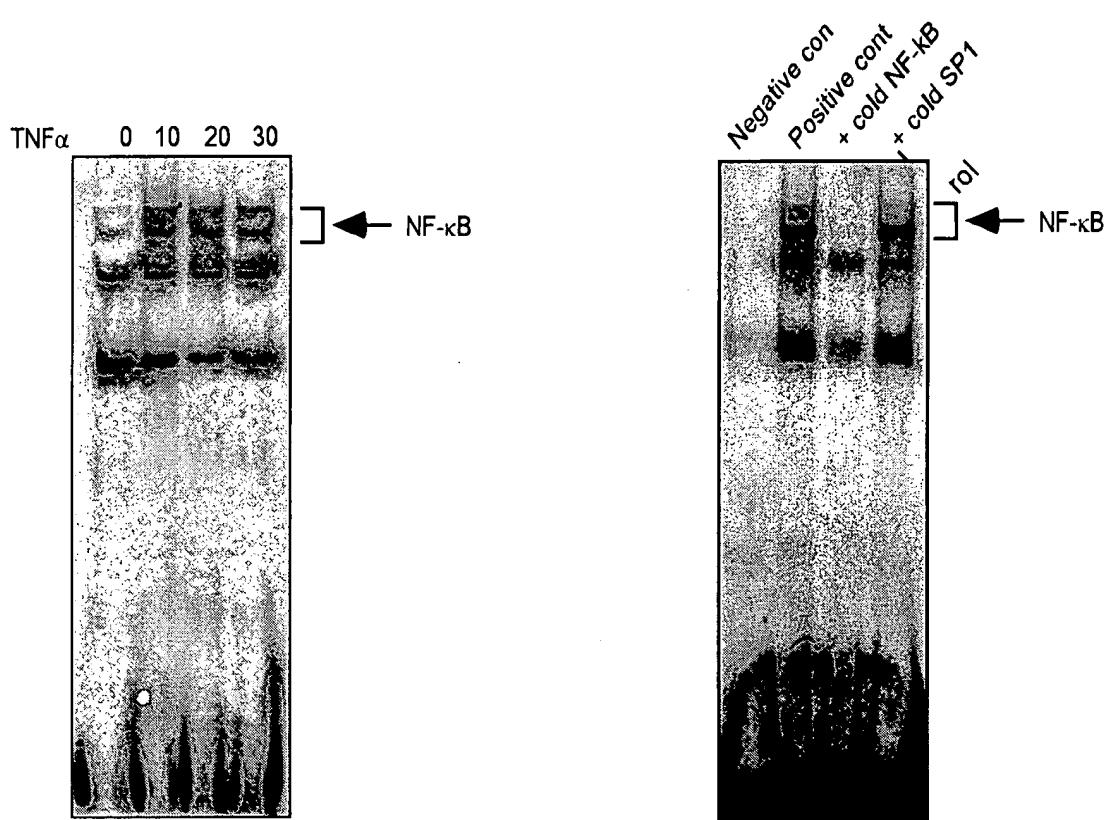


Figure 7A

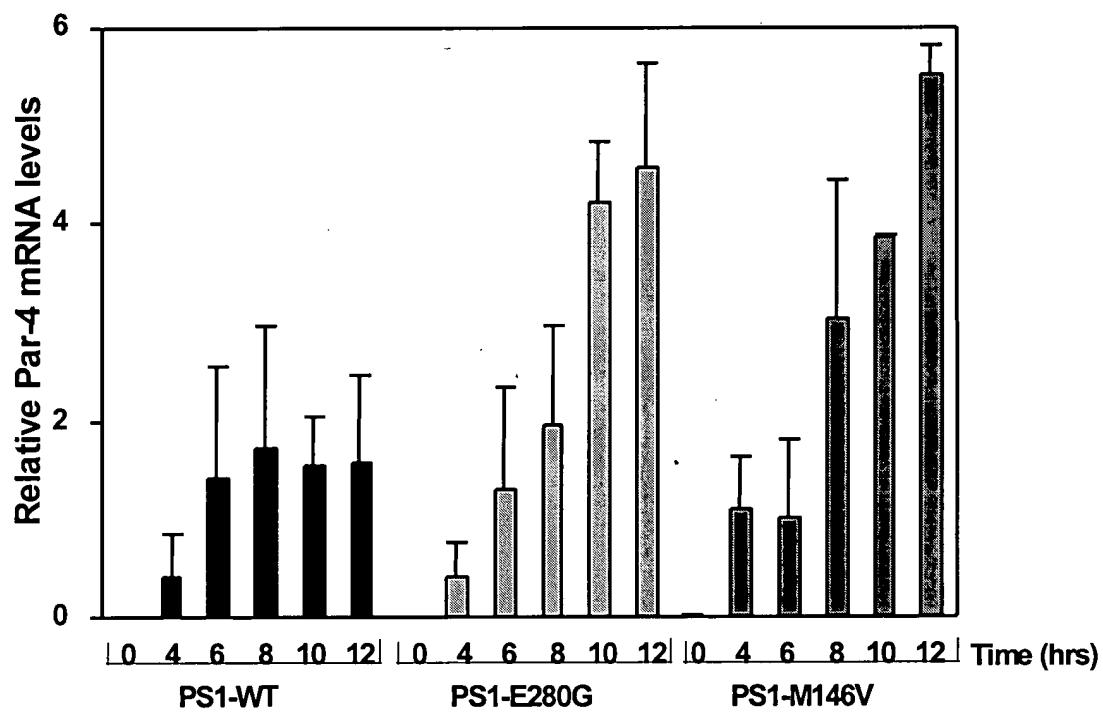


Figure 7B

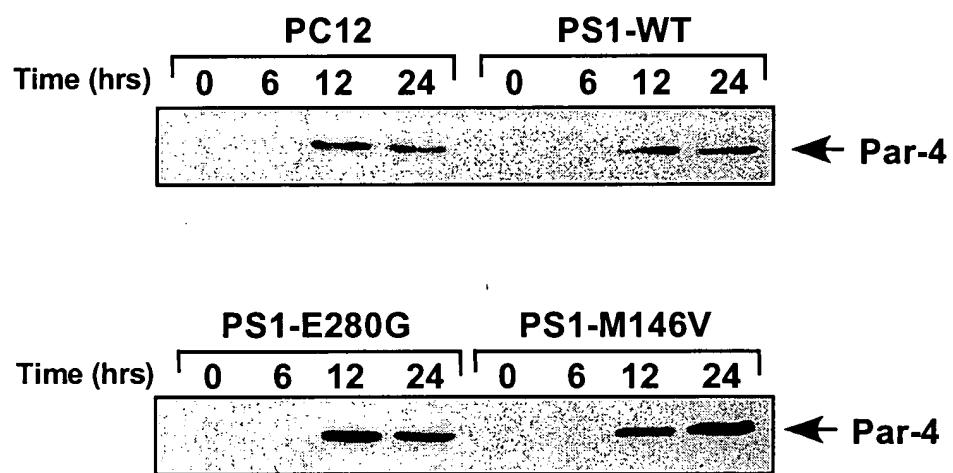


Figure 8

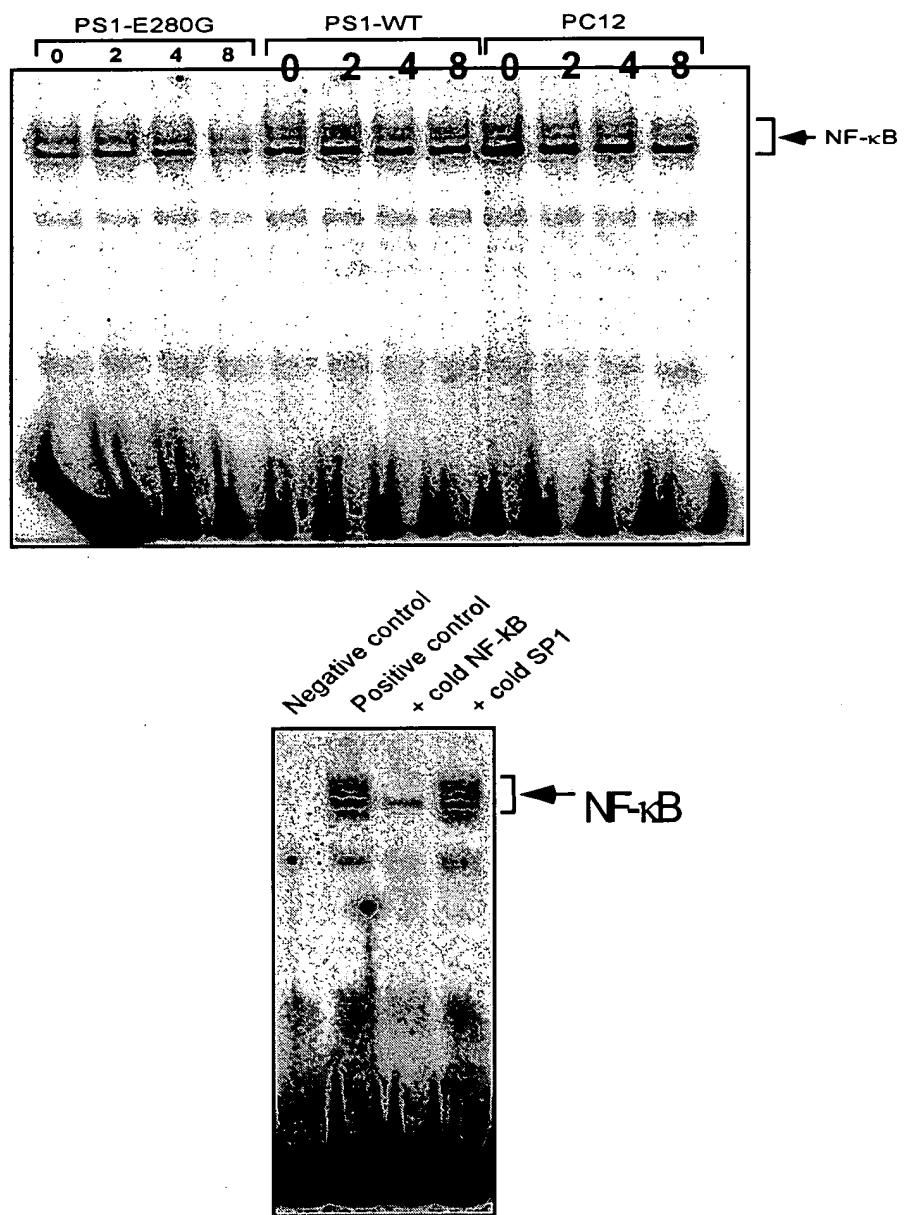


Figure 9A

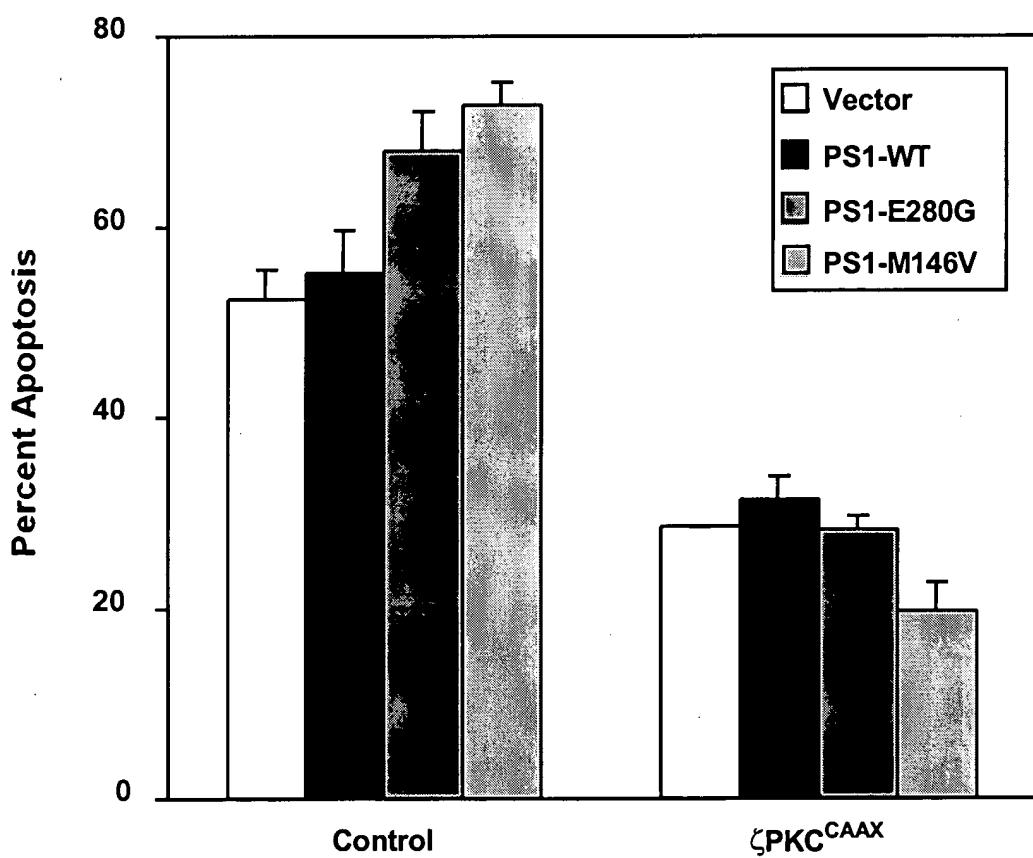


Figure 9B

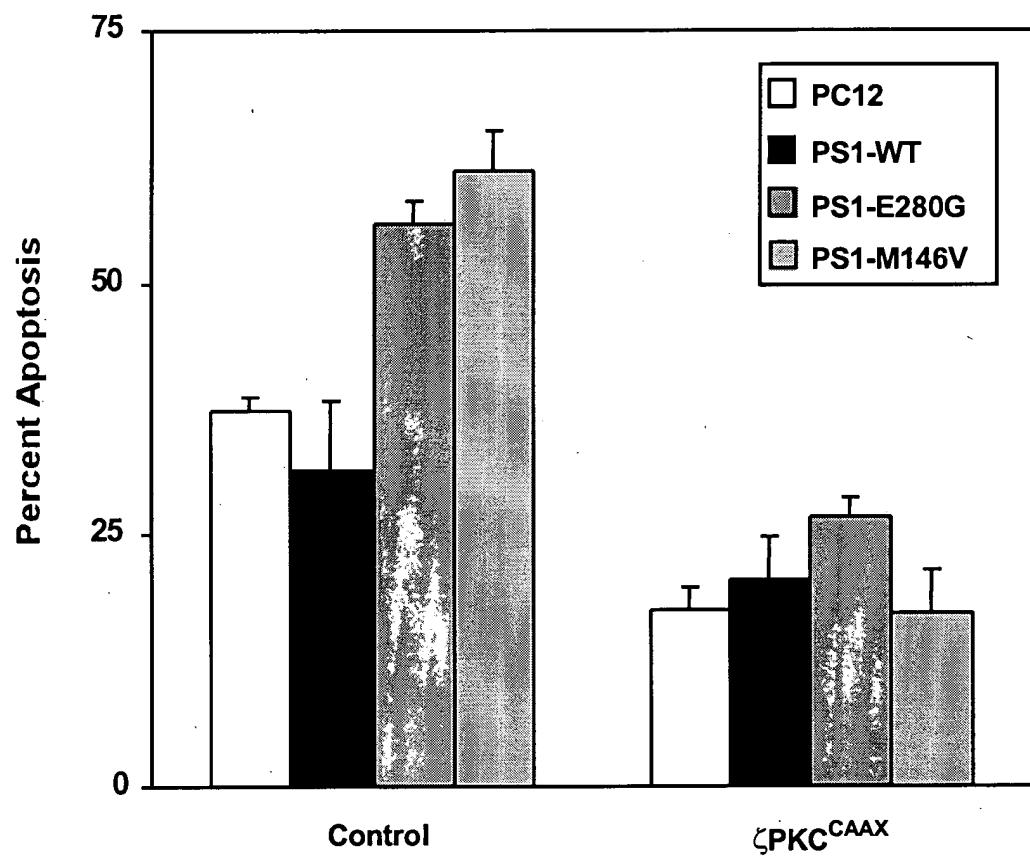


Figure 10

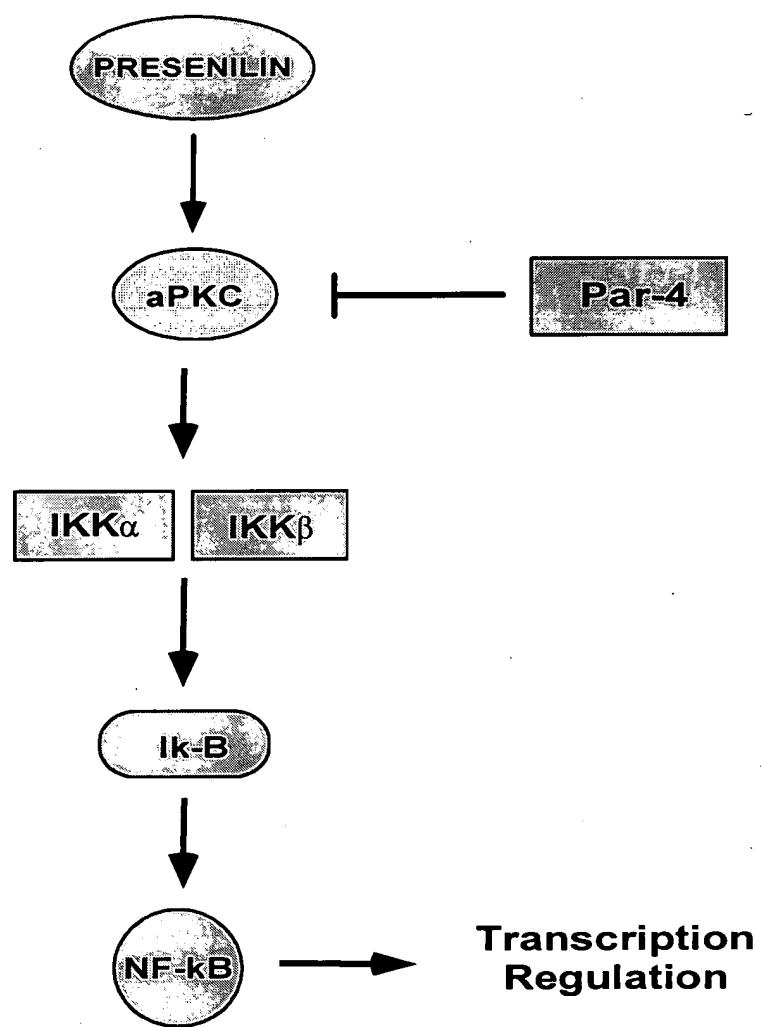


FIGURE 11A

ATGCGCGCCAAGCAGAACCCCCCGGGCCCCCCCGGGAGGGGGCAGCAGCGACGCCGC
TGGGAAGCCCCCGCGGGGCTCTGGCACCCCGGCCGCGCTGCCAACGAGCTCAACA
ACAACCTCCCAGGGCGCGCCGCCGCACCTGCCGTCCCCGGTCCCGGGGGCGTGAAC
GCGGTGGCTCCGCCATGCTGACGCCGGCGCCCCGGCCGCCGGCGGGTCGGAGGA
CGAGCCCCAGCCGCCTCTGCCTCGGCTGCACCGCCGCCAGCGTGACGAGGAGGAGCCGG
ACGGCGTCCCAGAGAAGGGCAAGAGCTCGGGCCCCAGTGCCAGGAAAGGCAAGGGGAGATC
GAGAAGAGGAAGCTGCAGGAGAACGGCGCTCCACCGCGTGGTCAACATCCCTGCCGCAGA
GTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAA
TTACACAACAGAACACTATTAGAATGAAGCTGTAAACTTACTAGATCCAGGCAGTTCTAT
CTGCTACAGGAGGCCACCTAGAACAGTTCAAGGAGATATAAAAGCACAACCAGTGTCTGA
AGAAGATGTCTCAAGTAGATATTCTGAACAGATAGAAGTGGGTTCCCTAGATATAACAGGG
ATGCAAATGTTCAAGGTACTCTGTTCAAGTAGCACACTGGAAAAGAAAATTGAAGATCTT
GAAAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAACAGACTGTGAGACTGATGCAAGATAA
AGAGGAAATGATTGGAAAACCTAACAGAACAGCTAAAGCAGGAAATAAAACTCTTGAAAGTTGTGGGT
CTGACCAGGTAG

FIGURE 11B

MATGGYRTSSGGGSTTDWKAKRKMRAKNGAGGGSSDAAGKAGAGTAAAANNNGAAAAGV
GGVNCAVGSAMTRAARGRRSDAASASAARDDGVKGKSSGSARKGKGKRKRSTGVVNAAC
DYDDAGKRKRKDATNTNAVNDGSSYRTVSGRYKSTTSVSDVSSRYSRTDRSGRYNRDANVSGT
VSSSTKKDKVVTRNRVRMDKGKKDNRDDDNKNKTKVVGTRMATGGYRTSSGGGSTTDWKA
KRKMRAKNGAGGGSSDAAGKAGAGTAAAANNNGAAAAGGGVNCAVGSAMTRAARGRRD
AASASAARDDGVKGKSSGSARKGKGKRKR

FIGURE 12A

ATGACAGAGTTACCTGCACCGTTGCCTACTTCCAGAATGCACAGATGTCTGAG
GACAACCACCTGAGCAATACTGTACGTAGCCAGAATGACAATAGAGAACGGCAG
GAGCACAACGACAGACGGAGCCTGGCCACCCCTGAGCCATTATCTAATGGACGA
CCCCAGGGTAACTCCCAGGTGGTGGAGCAAGATGAGGAAGAAGATGAGGAG
CTGACATTGAAATATGGCGCCAAGCATGTGATCATGCTCTTGTCCCTGTGACT
CTCTGCATGGTGGTGGTGTGCTACCATTAAGTCAGTCAGCTTTATAACCCGG
AAGGATGGGCAGCTAATCTATACCCATTACAGAAGATACCGAGACTGTGGC
CAGAGAGCCCTGCACTCAATTCTGAATGCTGCCATCATGATCAGTGTCAATTGTT
GTCATGACTATCCTCCTGGTGGTCTGTATAAATACAGGTGCTATAAGGTAC
CATGCCTGGCTTATTATATCATCTATTGTTGCTGTTCTTTTCATTCA
TACTTGGGGAAAGTGTAAACCTATAACGTTGCTGTGGACTACATTACTGTT
GCACTCCTGATCTGAAATTGGTGTGGTGGAAATGATTCCATTCACTGGAAA
GGTCCACTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCCTCATGGCC
CTGGTGTATCAAGTACCTCCCTGAATGACTGGCTCATCTGGCTGTG
ATTCAGTATATGATTAGTGGCTGTTGTCCGAAAGGTCCACTTCGTATG
CTGGTGAACAGCTCAGGAGAGAAATGAAACGCTTTCCAGCTCTCATTAC
TCCTCAACAATGGTGTGGTGAATATGGCAGAAGGGAGACCCGGAAGCTCAA
AGGAGAGTATCCAAAATTCCAAGTATAATGCAGAAAGCACAGAAAGGGAGTCA
CAAGACACTGTTGCAGAGAATGATGATGGCGGGTTCACTGAGTCACGGCTG
CAGAGGGACAGTCATCTAGGGCCTCATCGCTCACACCTGAGTCACGGCTG
GTCCAGGAACCTTCCAGCAGTACCTCGCTGGTGAAGACCCAGAGGAAAGGGGA
GTAAAACCTGGATTGGAGATTCATTTCTACAGTGTCTGGTGTAAAGCC
TCAGCAACAGCCAGTGGAGACTGGAACACAACCATAAGCCTGTTCGTAGCCATA
TTAATTGGTTGTGCCTACATTATTACTCCTGCCATTCAAGAAAGCATTG
CCAGCTCTCCAATCTCCATCACCTTGGCTGTTCTACTTGCCACAGAT
TATCTGTACAGCCTTATGGACCAATTAGCATTCCATCAATTATATCTAG

FIGURE 12B

MTELPAPLSYFQNAQMSEDNHSNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSRQV
VEQDEEEDEELTLKYGAKHVINLFPVTLCMVVVVATIKSVSFYTRKDQQLIYTPFTEDTET
VGQRALHSILNAAIMISIVVMTILLVVLKYRCYKVIHAWLIISLLLLFFFSFIYLGEVF
KTYNNAVVDYITVALLIWNFGVVGMIHKGPLRLQQAYLIMISALMALVFIKYLPEWTAWL
ILAVISVYDLVAVLCPKGPLRMLVETAQERNETLPALIYSSTMVWLNVMAEGDPEAQRRVS
KNSKYNAESTERESQDTVAENDDGGFSEEWEAQRDSHLGPHRSTPESRAAVQELSSSILAGE
DPEERGVKLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCLLIAIFKKALPA
LPISITFGLVFYFATDYLVQPFMDQLAFHQFYI

FIGURE 13A

ATGCTCACATTGACAGCGAGGAAGAAGTGTGATGAGCGGACGTCCCTAAT
GTCGGCCGAGAGCCCCACGCCGCGCTCTGCCAGGAGGGCAGGCAGGGCCAGAGGATGGAG
AGAACACTGCCCAGTGGAGAACGCCAGGAGAACGAGGAGGACGGTGAGGAGGACCCCTGACCGC
TATGTCGTAGTGGGTTCCCGGGCGGCCAGGCCTGGAGGAAGAGCTGACCCCTAAATA
CGGAGCGAAGCACGTGATGCTGTTGCGCTGCACTCTGTGATGATCGTGGTAG
CCACCATCAAGTCTGTGCGCTTCTACACAGAGAACGAGCTCATCTACACGACATTC
ACTGAGGACACACCCCTCGGTGGCCAGCGCCTCTCAACTCCGTGCTGAACACCCCTCATCAT
GATCAGCGTACCGTGGTTATGACCATCTCTGGTGGTGCCTACAAGTACCGCTGCTACA
AGTTCATCCATGGCTGGTGATCATGTCTCACTGATGCTGCTGTTCTCTTACACCTATATC
TACCTGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCACCCCTTGCTGAC
TGTCTGGAACCTCGGGCAGTGGCATGGTGTGCATCCACTGGAAGGGCCCTTGCTG
AGCAGGCCTACCTCATGATCAGTGCCTCATGGCCCTAGTGTTCATCAAGTACCTCCA
GAGTGGTCCCGTGGTCATCCTGGCGCCATCTGTGTATGATCTCGTGGCTGTGCTG
TCCCAAAGGGCCTCTGAGAATGCTGGTAGAAACTGCCAGGAGAGAACGAGCCATATTCC
CTGCCCTGATATACTCATGCCATGGTGTGGACGGTGGCATGGCGAAGCTGGACCCCTCC
TCTCAGGGTGCCCTCCAGCTCCCTACGACCCGGAGATGGAAGAAGACTCCTATGACAGTT
TGGGGAGCCTTCATACCCCGAAGTCTTGAGCCTCCCTGACTGGCTACCCAGGGAGGGCT
GGAGGAAGAGGAGGAAGGGCGTGAAGCTTGGCCTCGGGACTTCATCTTACAGTGTG
TGGTGGCAAGGCCTGCCACGGCAGCGGGACTGGAATACCACGCTGGCTGTTCAAGAAGGCGCTGCC
GCCCTCCCCATCTCCATCACGTCGGCTCATTTACTTCTCACGGACAACCTGGTGC
GGCGTTCATGGACACCCCTGGCCTCCATCAGCTACATCTGA

FIGURE 13B

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDR
YVCSGVPGRRPGLEEEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTF
TEDTPSGQRLLNSVLNTLIMISVIVVMTIFLVVLYKYRCYKFIHGWLIMSSIMLLFLFTYI
YLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPLVQQAYLIMISALMALVFIKYLP
EWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVWTVGMAKLDPS
SQGALQLPYDPEMEEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEERGVKLGLGDFIFYSV
LVGKAAATGSGDWNTTLACFVAILIGLCLLLLAVFKKALPALPISITFGLIFYFSTDNLV
RPFMDTLASHQLYI

FIGURE 14

GAATTGGCACGAGGGCGCCGCTGGCTCCCTCCGCCCTGGCTCCCTCCCTCCCTC
CCTCCTTCTTCTCCCTCCCTGTCTGGATTGCCTGGAGCTCCGCACCGCGAGTTGCCGC
GGCACTTTCCGCGCGCGGAAGAGCGCGCCAGCTTCGGCACACCTGGGAGCCGGATCCCAGC
CCTACGCCTCGTCCCTACAAGCTCCCAAGCCCCGCCGGCTGCTGTGGGAGCGGGCGCCGTC
CCTCTCCTGGAGGTGTCCTGGCATCCTCGGGGCCGCAGGAAGGAAGAGGAGGCAGCGGCCG
GAGCCCTGGTGGCGGCCTGAGGTGAGAGCCCCGACCGGCCCTTGGGAAT

FIGURE 15

GAATTCCAGAAGGCAGGAACAGAGAAAGTAGAAGGAAAGTCTTATAAAAGAAAGAGAAATAGGCC
AGGCACGGTGGCTACGCCTCTAATCCCAGCATTGGGAGGCTGAGGCAGGTGGATCATGAGG
TCAGGAGTTCAAGACCAACCTGACCAACATGGTAAGCCCCGTCTCTACTAAAAATACAAAAT
TAACCAGGCGTGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAAATCGCTTGAA
CCCGAAAGGTGAAGGTTGCTGTGAGCCTAGATCAGGCCACTGCACTCTGACCTGGCGACAGAG
CGAGACTCCATGTCAAAGAAAAGAAAGAGGATAAGAAAATTCTAACTGGAAGGCAGATAGC
TGATTAAGGGTCACTGACTGCATAACATAATAATGATAAAAGACCAAATCAGAGCATATCT
TCAAGATATTCAGAGGATCTAAGTAAGAAGATCCAAAATTGAGACAGAAAATACAATGCA
ATCAGAATGCCACTGGTCTTCTAAACAGCAACTCTGGAAACTAGATGATAATAAGCAATGCCT
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TGTAACTCCAGCATTGGGAGGCCAAGCAGGCTGGTGCCTGAGCTCAGAAGTTCGAGACCA
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CATGTGCCTGTATTCCCAGCTACTCTGGAGGCTGATGCAGGAGAATTGCTTGAACCCAGGAGGC
GGAGGTTGCAGTGAGCCAAGACTGCCACTGCACTACAGCCTACCAACAGAGCGAGACTCCG
TCTCAAACAAACAAACAAATCAATCCATTAAAGCAGGGATGGAGGGCTCCAGAACAGAT
GTTTCAAAGAGAAATAGAACTGATAGCTTACCAATGTGATTAACGTCTTGTGAGAGGAGGAA
AATTGAGTATATACTTGTACTGGTATATAAAAATAAGCCGATGATTAAGGAAAAAAAG
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AGTTGTAAAAAAAGAAATGCAATCATACACACATGACTCAGCTATGAACAGTATTGTA
TAGTCATAATACTACGGCGTGTAGGAGTATGAAAAGTATATGTGTGGCCGGCATGGTGGCTC
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TGTAGAGGATGAATTGCATATGTCAGAAATACCTGCATTGAAGGAAAATGGCTACTTCCC
AATACACTAGCTATCCATACATATAATAACACTTCTCAAAATCATTAAGACTAACATCTAG
GTTCACTCTGACATATTTAAATGAATCTGTTTGTCACTCATATTCAATT
TATTAAGGGCAAGTGAGTCGCTAAAATTGGTATTAGGCTAACTCAGAGGTGCTCAACCAGG
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ATCTAATAGGTAGAAGCCAACGATGCTGCTAAACACCTACAATGGCAGGACAGCAAAGAATT
ATCCAGCCCCAAATGTAACAGTGCTGAGGTTGAGAAACCAAGCTTCAAGTCTTGGGATTATT
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GCTAAATACCTCGGTGCAATGTTGGAAGCAGTCTGGCTGTGAAATATATCTCGGAAATTG
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ATAATCTCTTCTACATGGTCTAGGGCACTTATAGACTAATAACACTCTGAGTAC
ACATACCCACCTTATCTAAGGACTGCAGGCACCTCACAACACTCTCAGGAGGAAAGTAT
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CTGATATTGTATATTCAATAACCCATCTGTTATAATTCTCTCTCCATACACTCTTAGAG
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CCTGGCGACAGAGCGAGACTCCGCCTCAAAAAAAAAAATGTAATTGCTGATTATAG
TACAGAAAGCTGAGTACCGAGATAATGTAACATGCCAAGATCTCAGCTAGCTGACTATTCC
CTCTTCCACTATATCCTGCAGCCCTCCAGGAGAAAAGTCTCTGATAAGTTACAAAGCATAT
GAATGTGAATACGTTAATGTCAGCCTCCCTACTCTCTTAAACTCAGAAACAAACTAA
TGAATATGTAATTGAGAAACTCAGGTGGCACACTGGGGTTGGTACTAGCTTAGGAAACAGCC
GCTCAGCCTTTAGACCTATTCCAACAAAAGCTTTAATTCTAAGGATTTCCAGAGCTC
TCGCCATACGTTCCCACAACAGCCAGACAAAGACCAAAACTGTCTTCCCTGAGAAATATAG
AGCATGTGAATCACTTCTGTTCCCAGTCTGTGGCAGGCAAACACTGATTGCTCACTCAT
CATGTGCTACCTGGGCAAAACAGGAATATTAAGTAGGAAGAAAGGTTATGTTAGGAAAGAGCG
TGACTTAGGGCTCTCCTACTTTTACAAAATGGAGACCTGGCATTGTCAGCAGCCCACCCC
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GAAAAGGGAGCAGCGACTAGGAAAAGAGACACGTGGTATTTCCTACTGTCTAGTCATTCC
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TAATACGGTCTGTACTTAAAGGAAGAGTGGTGGAGAAGAGAGAGGGGGAGAAGACAAGCAA
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GGTCTGCGCGGGAGCGGGCAGAGGACGGCTGGCGCAGGCAGGCTGCAGCGGGCGCGAC
GCGACGCCGCGCACCTGAGGCCGGGGCGTCAGCGGCCACGCCCTCCACCGCGCG
CCGCGCCCTCGCGCCCTCGGCCCTTCCGCTCGTCGGCGCCGCTCGGCTCCCT
CCGCCCCCTGGCTCCCTCCCTCCCTCCCTCTCCCTCTCCCTGTCTGGGATTG
CCTGGAGCTCGCACCGCGAGTTGCCGCGGACTTCCGCGGGAGGCCGAGAGCGCGGCCAGC
TTCGGCACACCTGGGAGCCGGATCCCAGCCCTACGCCCTCGTCCCTACAAGCTCCTCAAGGTA
AGGCCTCGCTCACACCCGGCTTCCACGCTCGGCCGGACAGCTGGTCCCCGCCCTCTG
CGAACCGGCTAGGAGCTCGCGCTCGCTGGAGTGGGTTGTAGCTGACGGGACCTCGGA
CCGGCGGTGGCTAGAGCGCGGAGCAGGCAGACGACGAGCCACAGGTGGCGGGTAGCCCTA
GTATCTGACCGCCGCCGGCGACCTGGTGGGATGGGCGGGCGGCCGACTTGGGGTG
GGTCAGTCTCTCCCTCTAGGGCGGCGATCGTCGGGTCCGTACTGTAGGTGCGTG
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CTCCTGGAGGTGCTCTCCGATCCTCGGGGCCGAGGAAGGAAGAGGAGGAGCAGCGGCCGAG
CCCTGGTGGCGGCGCTGAGGTGAGAGCCCAGCGGCCCTTGGGAATATGGCAGCCGGTGGCT
ACCGGACCAAGCAGCGGCTCGCGGAGCACCACAGACTCCTGGAGGAGTGGAGGGCGAAACG
CGAGAAGATGCGCGCCAAGCAGAACCCCCGGCCGGCCCCCGGGAGGGAGGGCAGCAGCGAC
GCCGCTGGGAAGCCCCCGCGGGGCTCTGGCACCCGGCGGCCG